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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/073,006	02/12/2002	Junya Kaku	020174	5121

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EXAMINER

NGUYEN, LUONG TRUNG

ART UNIT PAPER NUMBER

2612

DATE MAILED: 06/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application/No.**

10/073,006

**Applicant(s)**

KAKU, JUNYA

**Examiner.**

LUONG T. NGUYEN

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 09 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 10-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 10-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 February 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/19/03;7/30/04</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Applicant's election of Species II, Figures 4-5 reads on new claims 10-12 in the reply filed on 03/09/2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
2. It is noted that claims 1-9 have been canceled in the reply filed on 03/09/2005.

### ***Priority***

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Drawings***

4. The drawings are objected to because of the following informalities:  
In Figure 4, "MEMORYC ONTROL 24" should be changed to --MEMORY CONTROL 24--.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing

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should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### *Specification*

5. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

6. The disclosure is objected to because of the following informalities:

In the specification, page 7, line 22, "quantizaion" should be changed to --quantization--.

Appropriate correction is required.

### *Claim Rejections - 35 USC § 102*

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

8. Claims 10-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Tsujino et al.

(U. S. Patent No. 6,903,776).

The applied reference has a common Assignee (Sanyo Electric Co., Ltd.) with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding claim 10, Tsujino et al. discloses a digital camera (digital camera 10 which has continuous shot mode, Figure 1, Column 6, Lines 12-25) that periodically creates, until a recording instruction is issued, a first still image (preceding image data, Column 8, Lines 21-35) corresponding to an object scene which is incapable of being displayed in real time, and creates, when the recording is issued, a second still image (current shot image data, Column 8, Lines 21-35) corresponding to the object scene so as to record into a recording medium (memory card 50, Figure 1, Column 5, Lines 27-32) in a compressed manner, comprising:

a calculator for calculating a specific compression ratio coefficient in which the first still image can be compressed up to a specific size (a compression ratio for the current shot image data is calculated based on a size of the preceding compressed image data, the preceding compression ratio and a target size, Column 8, Lines 21-35, Figures 4-5, Steps, 37, 39, Column 7, Lines 45-52);

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a compressor for compressing the second still image by use of the specific compression ratio coefficient (a compression ratio for the current shot image data is calculated based on a size of the preceding compressed image data, the preceding compression ratio and a target size, Column 8, Lines 21-35, Figures 4-5, Steps, 37, 39, Column 7, Lines 45-52);

a corrector for correcting the specific compression ratio coefficient when a compressed second still image created by said compressor does not satisfy a size condition including the specific size (a compression ratio for the current shot image data is calculated based on a size of the preceding compressed image data, the preceding compression ratio and a target size, Column 8, Lines 21-35, Figures 4-5, Steps, 37, 39, Column 7, Lines 45-52);

a recorder for recording the compressed second still image satisfying the size condition into said recording medium (record image data into the memory card 50, Figure 6, Column 7, Lines 53-65), wherein the first still image and the second still image have the same resolution with each other (since the preceding image data and the current shot image data are read out from CCD imager 12 in the same mode, they have the same resolution with each other) .

Regarding claim 11, Tsujino et al. discloses the calculator includes a first still image compressor for compressing the first still image, and a calculation executor for calculating the specific compression ratio coefficient on the basis of a compressed first still image created by said first still image compressor (a compression ratio for the current shot image data is calculated based on a size of the preceding compressed image data, the preceding compression ratio and a target size, Column 8, Lines 21-35, Figures 4-5, Steps, 37, 39, Column 7, Lines 45-52).

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Regarding claim 12, Tsujino et al. discloses the recorder records a newest compressed second still image into said recording medium when the number of compressing operations directed to the second still image reaches a threshold values (target size, the current shot image data is compressed based on target size, then is recorded into memory card 50, Figure 6, Column 7, Lines 45-65, Column 8, Lines 31-35).

### *Conclusion*

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Maeda (U. S. Patent No. 5,444,483) discloses digital electronic camera apparatus for recording still video images and motion video images.

Arai et al. (U. S. Patent No. 5,576,758) discloses electric still camera having a display for displaying an image compression ratio.

Kawamura et al. (U. S. Patent No. 5,821,997) discloses still image recording apparatus which selectively compresses single image information at a first compression ratio and a second compression ratio and to decompress the compressed single image information for display before main storage.

Tsunoda et al. (U. S. Patent No. 6,788,341) discloses data recording apparatus.

Yokonuma (U. S. Patent Application No. 2004/0105585) discloses image compression apparatus, method and recording medium storing an image compression program.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LUONG T. NGUYEN whose telephone number is (571) 272-7315. The examiner can normally be reached on 7:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WENDY GARBER can be reached on (571) 272-7308. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LN  
6/24/2005



**LUONG T. NGUYEN  
PATENT EXAMINER**